

# NAVAL SAFETY CENTER UPDATE ON MISHAP REDUCTION EFFORTS



– Briefing for VADM Roughead –  
2<sup>nd</sup> Fleet

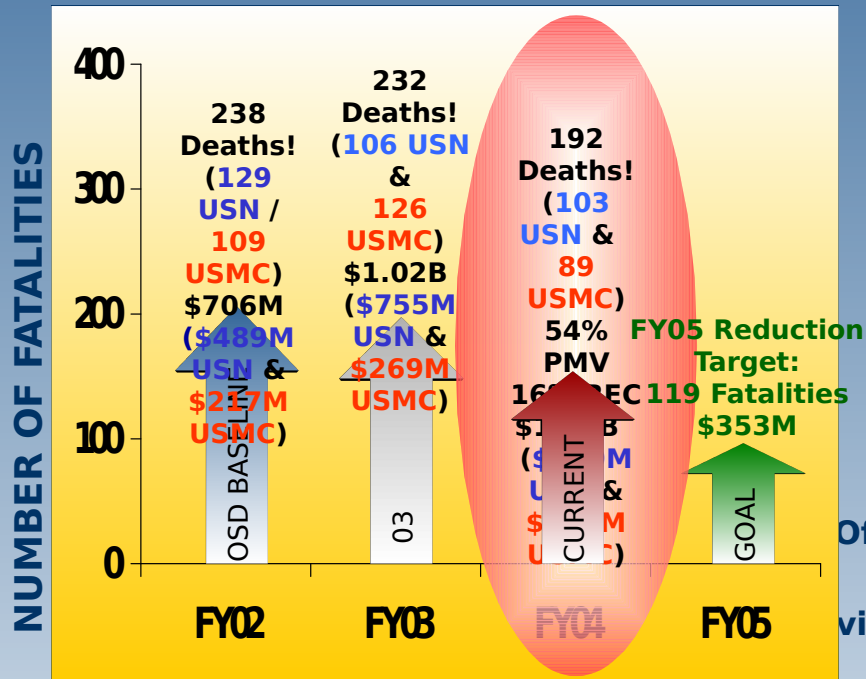
RADM Dick Brooks  
Commander, Naval Safety Center



# Halfway There – How Are We Doing?

NSC Data: 29 August 2004

## USN/USMC FATALITIES AND RESOURCES LOST



**We are headed toward 212 (114 USN & 98 USMC) deaths in FY04 -**  
**Our FY05 50% mishap reduction goal is 119.**

## USN/USMC MISHAP AND FATALITY TRENDS

	FY04		FY05	
	USN	USMC	USN	USMC
Aviation	.10	1.88	.38	2.94
Afloat	.01	N/A	.81	N/A
Shore/Ops	.10	4.79	.87	7.46
PMV (Off-Duty)	3.62	4.19	8.92	5.99
Off-Duty Recreation	1.54	1.91	3.02	3.63
Civilian lost day rates	2.42	3.69	14.81	18.96

### LEGEND: FY04/05

- = on or below glide slope/FY05 goal
- = above glide slope/FY05 goal
- = within 2.0 of glide slope/FY05 goal





# USN Cost and Deaths (FY02-04)

NSC Data: 29 August 2004

Total Mishap Cost =  
\$1.72B

Sailors Dead = 338

Aviation Leads Cost	COST IN MILLIONS			
	Aviation FY04 \$435M			
		FY02	FY03	FY04
	AVIATION			
	AFLOAT	\$418	\$711	\$435
	PMV	41	17	21
	SHORE/OPS	16	16	13
RECREATION		6	3	4
		7	8	6

PMV Leads Fatalities	FATALITIES			
	PMV FY04 65			
		FY02	FY03	FY04
	PMV			
	SHORE/OPS	75	66	65
	RECREATION	14	9	11
	AVIATION	21	20	20
AFLOAT		14	10	5
		5	1	2



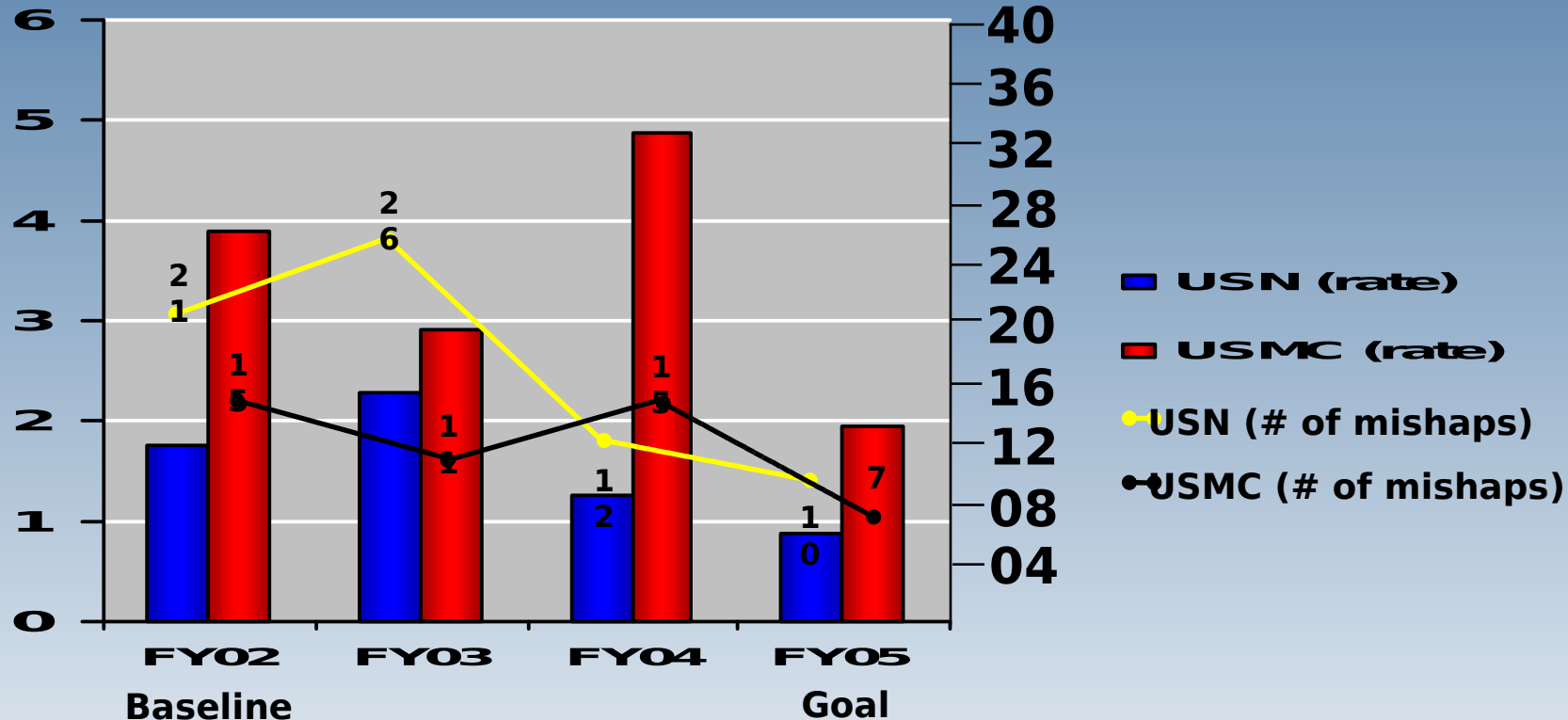


# USN/USMC Aviation Mishap Rates & Class A's

NSC Data: 29 August 2004

Rate per 100,000  
flight hours

Number of  
Class A mishaps



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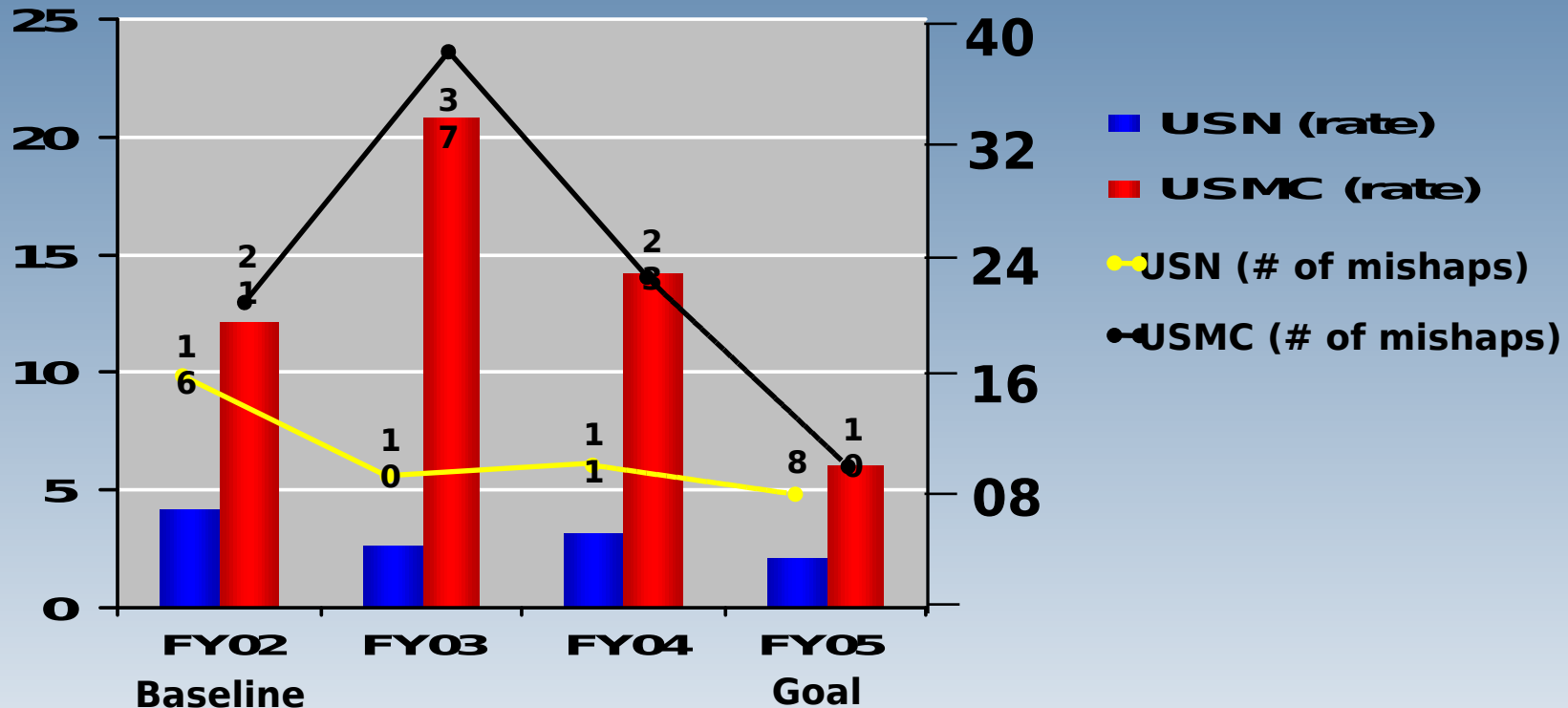


# USN/USMC Shore Mishap Rates & Class A's

NSC Data: 29 August 2004

Rate per 100,000  
personnel per year

Number of  
Class A mishaps



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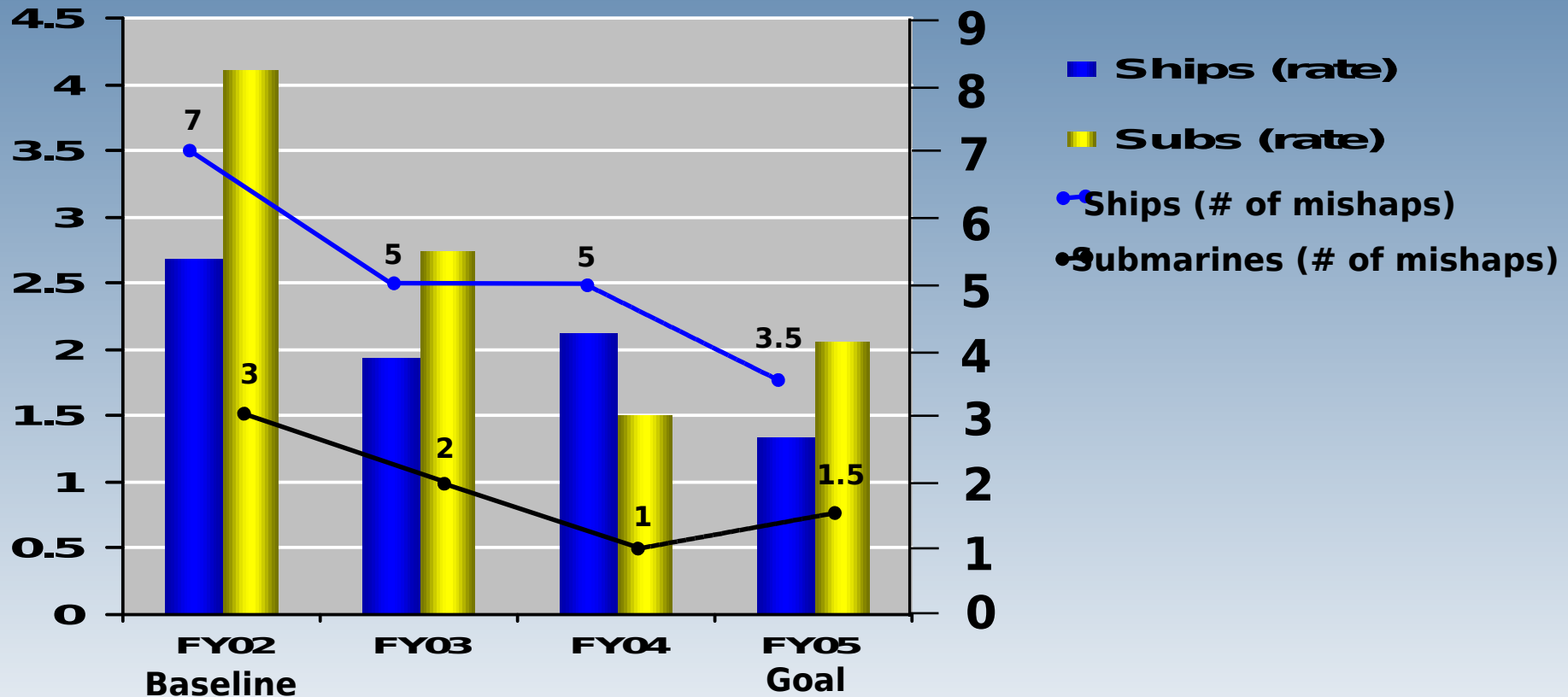


# USN Afloat Class A Mishap Rates & Class A's

NSC Data: 29 August 2004

Rate per 100 ships per year

Number of Class A mishaps



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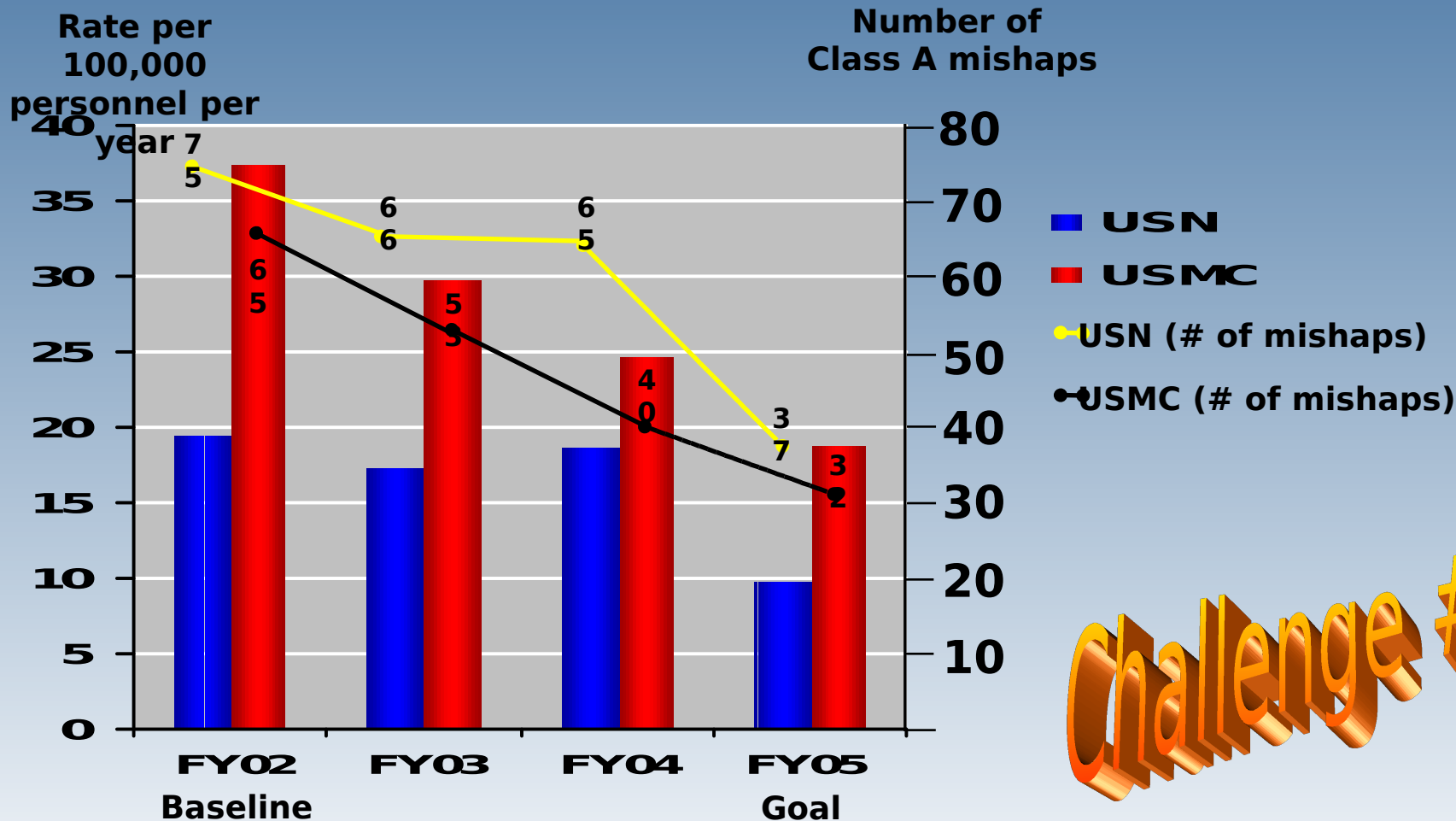




# USN/USMC PMV Fatality Rates & Class A's

## A's

NSC Data: 29 August 2004



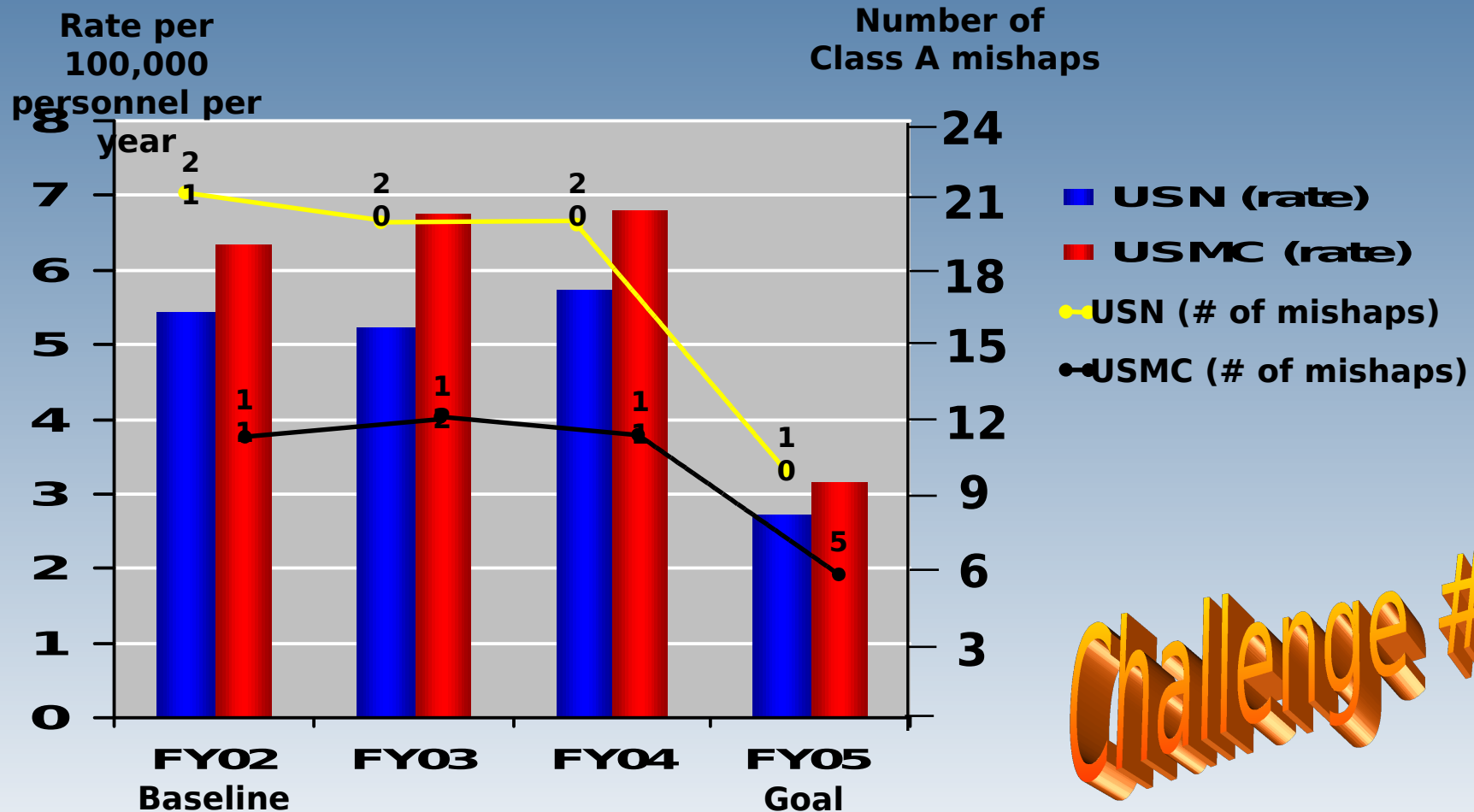
Challenge #1





# USN/USMC Off-Duty Recreation Fatality Rates & Class A's

NSC Data: 29 August 2004



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# Force Comparison (TYCOMs) - FY02-04

NSC Data: 29 August 2004

## Aviation

(per 100k flight hrs)

## Afloat

(per 100 ships)

## Shore

(per 100k  
personnel)

## Rec (Off- Duty)

(per 100k  
personnel)

## Traffic

(per 100k personnel)

USN A's/Rate	AIRPAC A's/Rate	AIRLAN T A's/Rate	SURFPA C A's/Rate	SURFLAN T A's/Rate	SUBPAC A's/Rate	SUBLAN T A's/Rate
59 / 1.80	21 / 2.16	24 / 2.87	0 / 0	0 / 0	0 / 0	0 / 0
23 / 2.38	1 / 6.11	2 / 10.77	7 / 3.00	7 / 2.09	4 / 3.93	2 / 1.81
37 / 3.31	0 / 0	0 / 0	3 / 2.70	3 / 2.50	0 / 0	0 / 0
61 / 5.47	8 / 6.12	6 / 4.75	5 / 4.49	8 / 6.68	5 / 24.95	3 / 11.91
206 / 18.47	31 / 23.72	22 / 17.43	22 / 19.78	20 / 16.70	7 / 34.94	12 / 47.63





# Force Comparison (2nd Fleet) – FY02-04

NSC Data: 29 August 2004

## Aviation

(per 100K flight hrs)

## Afloat

(per 100 ships)

## Shore

(per 100k personnel)

## Rec(Off-Duty)

(per 100K personnel)

## Traffic

(per 100K personnel)

USN Class A's/Rate	2 <sup>nd</sup> Fleet Class A's/Rate	3 <sup>rd</sup> Fleet Class A's/Rate	7 <sup>th</sup> Fleet Class A's/Rate
59 / 1.80	24 / 2.87	21 / 2.41	0 / 0.00
24 / 2.47	11 / 2.35	10 / 3.40	2 / 3.27
37 / 3.31	2 / 1.13	3 / 2.46	0 / 0
61 / 5.47	15 / 8.48	8 / 6.57	6 / 15.65
206 / 18.47	40 / 22.63	37 / 30.38	5 / 13.04





# Commander's Assessment

## TOP CONCERNS

### • **Status Quo Will Not Get the Job Done.**

Good programs exist and have produced some good results, but...

### • **Leadership and Accountability Required.**

Most mishaps can be prevented with appropriate intrusive leadership and involvement at every level.

### • **Cradle to Grave Training as Long-Term Fix.**

5 Vector Model being worked by Navy Center for Personal Development.

### • **Safety Center & Navy-Marine Corps Focus.**

Predictive and Preparative vice Reactive.

### • **Utilize All Available Safety Resources.**

Army Safety Management Information System, Traffic Safety Toolbox, Leave/Liberty Risk Assessments, etc.

### • **Emphasize Safety and Risk Management "24x7."**

A way of life. Not a concept that gets increased emphasis post-mishap.

### • **Balanced Acquisition Approach.**

Balanced acquisition approach for platforms and COTS/emergent technologies to reduce mishaps.

### • **ORM is Getting There, But More to Do to Ingrain It On and Off-**

### • **Duty.**

### • **Bottom Line**

**PLATFORM MISHAP REDUCTION - ACHIEVABLE. OFF-DUTY - HARD**

- **Off-Duty (PMV, REC) the challenge**
- **50% Mishap Reduction Campaign NOT consistently reaching deckplates**
- **Cultural change takes time**





# ORM and the Fleet

## COURSES

- **Immersion Training.** Complete for Aviation and Afloat communities; in progress for the Submarine community.
- **Curriculum.** CNET, NSC, and NAVOSHTRACEN courses incorporate ORM into all curricula.
- **Training.** Aviation, Afloat, and Submarine survey teams provide ORM refresher training upon request. Aviation, Afloat, and Submarine safety officer schools provide instructor-level ORM training. DCO/DYO/DH schools, DIVO training, and Senior Enlisted Academy provide training.

## ON-LINE

- **On-Line Training.** Offered through CNAF's ORM University and USMC MarineNet. Resources available on NSC website. Total Risk Assessment and Control System (TRACS) & U.S. Army Motor Vehicle Risk Assessment Tool (ASMIS).

## ORM

(OPNAVINST 3500.39B)

- Governs use of ORM throughout the Fleet
- Progressed from "SHOULD" to "SHALL"

# ORM Works!

Transition to RM a Must.  
**Need it On and Off-Duty!**

## MISHAP RATES



ORM Introduced to Fleet  
Aviation Mishap Rates Declining  
Afloat and Submarine Communities Show Improvements

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# Ongoing Efforts

## FLEETWIDE INITIATIVES

- Defense Safety Oversight Committee
- Navy and Marine Corps Safety Council
- Operational Risk Management
- Data Centric Technology - MFOQA
- Safety Strategic Plan
- Human Factors Analysis
- CNET 5 Vector Model
- Navy Knowledge Online
- Culture Workshops
- Command Safety Assessment
- Maintenance Climate Assessment Survey

## NAVAL SAFETY CENTER PROGRAMS

- Mishap Investigations
- Surveys
- Web-Enabled Safety System (WESS)
- 50% Mishap Reduction Media Kits
- Naval Safety Campaign Plan
- ASCAS
- ORM Assessment (ORMAS)
- Media Campaign: Video/Print/Broadcast
- Critical Days of Summer Campaign
- Good Samaritan Program
- First Flag Notification
- NHTSA/Drive Smart VA/USAA/Click It or Ticket/Harley Davidson
- BG/ESG/MEU Reports

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# Challenges



Eliminate or Reduce Top  
Causal Factor of Mishaps:  
**Human Error (85%)**

Performance Metrics  
for Mishap Reduction

Eliminate or Reduce Highest  
Cost, Fatalities, Injuries:  
**Aviation/PMV/REC**

Emphasize Accountability  
And Responsibility:  
**Traffic and Recreation**



**Culture Change:**

- Leadership involvement necessary
- Reactive vice proactive
- Report class B/C mishaps
- Make safety a high priority

Funds for Safety Programs:

- USN-USMC Safety Council  
≅ \$160M FY04-11  
(\$112M USN & \$48M USMC)
- DASN(S) Funding Meeting





# Intrusive Leadership Makes THE Difference!



# QUESTIONS?



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[www.safetycenter.navy.mil](http://www.safetycenter.navy.mil)

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